

LISTING OF CLAIMS

The following listing of claims will replace all prior listings of claims in this application.

I claim:

- 1-49. (Canceled).
50. (Previously Presented) The multi-position reclining bed of claim 103, wherein the thigh section and calves section are configured into a locked position utilizing lock springs, in an elongated state, that force a transfer link to remain in an over centered locked position.
51. (Previously Presented) The multi-position reclining bed of claim 102, wherein the buttocks section is capable of pivoting in an upward direction about the bottom edge of the back section.
52. (Previously Presented) The multi-position reclining bed of claim 51, wherein the lower edge of the buttocks section is capable of elevating in an upwards direction.
53. (Previously Presented) The multi-position reclining bed of claim 52, further comprising a plurality of arm rests.
54. (Previously Presented) The multi-position reclining bed of claim 102, further comprising a swing arm attached to any of the supporting elements.
55. (Previously Presented) The multi-position reclining bed of claim 54, wherein the armrest is attached to a swing arm.
56. (Previously Presented) The multi-position reclining bed of claim 54, wherein the armrest is capable of pivoting substantially horizontally to a position over the bed.
57. (Previously Presented) The multi-position reclining bed of claim 54, wherein the swing arm is capable of locking into position utilizing a swivel lock.
58. (Previously Presented) The multi-position reclining bed of claim 54, further comprising a desk attached to the swing arm.
59. (Previously Presented) The multi-position reclining bed of claim 54, further comprising electrical and data connections, wherein the electrical and data connections are secured to the swing arm such that they are accessible to the occupant of the bed.

60. (Previously Presented) The multi-position reclining bed of claim 59, wherein the data connection is capable of providing an internet and/or telephone connection.

61. (Previously Presented) The multi-position reclining bed of claim 103 further comprising a plurality of the following elements:

- a. pivot fixtures;
- b. connecting bars;
- c. transfer links;
- d. projections;
- e. stops; and
- f. lock springs.

62. (Previously Presented) The multi-position reclining bed of claim 61, wherein the pivot fixture is pivotally connected between the buttocks section and the thigh section.

63. (Previously Presented) The multi-position reclining bed of claim 61, wherein the transfer link has a plurality of pivot points, including a lower transfer link pivot point that is connected to the linear actuator, a foot end pivot that is pivotally connected to the connecting bar and to the opposite end of the connecting bar, and a pivot point that is pivotally connected to the feet elevating mechanism.

64. (Previously Presented) The multi-position reclining bed of claim 61, wherein the pivot of the transfer link is located between the lower pivot and the foot end pivot.

65. (Previously Presented) The multi-position reclining bed of claim 61, wherein the transfer link is pivotally connected to the feet elevating mechanism.

66. (Previously Presented) The multi-position reclining bed of claim 61, wherein the transfer link is pivotally connected to the pivot fixture.

67. (Previously Presented) The multi-position reclining bed of claim 61, wherein while the thigh section and the calves section are reclined below horizontal, the force of foot ward motion of the linear actuator on the lower transfer link pivot point causes upward rotation of the following elements in an upward direction about the distal end pivot of the pivot fixture until the projection of

the pivot fixture engages the stop secured to the thigh section at a substantially horizontal position:

- a. the pivot fixture;
- b. the calves section;
- c. the thigh section; and
- d. the feet elevating mechanism.

68. (Previously Presented) The multi-position reclining bed of claim 61, wherein the foot ward motion of the linear actuator results in rotation of the transfer link about the transfer link fixture pivot, causing lifting of the following sections from resting points on the pivot fixture, the calves section, and the stop, while elongating the lock spring:

- a. the thigh section;
- b. the calves section; and
- c. the feet elevating mechanism.

69. (Previously Presented) The multi-position reclining bed of claim 63, wherein the lower transfer link pivot is located along the pivot fixture.

70. (Previously Presented) The multi-position reclining bed of claim 69, wherein the linear actuator and the buttocks section form a double bar linkage resulting in substantially minor vertical movement of the lower edge of the calves section of the coplanar leg section as the buttocks section is reclined.

71. (Previously Presented) The multi-position reclining bed of claim 50, further comprising a box spring having a reduced thickness at the lower edge of the calves section.

72. (Previously Presented) The multi-position reclining bed of claim 71, further comprising:

- a. fabric material;
- b. peripheral frame; and
- c. a peripheral frame spring.

73. (Previously Presented) The multi-position reclining bed of claim 72, wherein the fabric material encloses the frame elements.

74. (Currently Amended) The multi-position reclining bed of claim 72, wherein the peripheral frame

[[d]] a. pivots at distal end pivots;

[[e]] b. forms the lower edge of the foot end of the bed; and

[[f]] c. forms both sides of the bed below the surface of the calves section and/or the thigh section.

75. (Previously Presented) The multi-position reclining bed of claim 72, wherein the peripheral frame spring elongates when it is rotated below the horizontal position about the distal end pivot.

76. (Previously Presented) The multi-position reclining bed of claim 72, further comprising a plurality of cams and cam followers.

77. (Previously Presented) The multi-position reclining bed of claim 76, wherein the cam contour controls the elevation position of the peripheral frame.

78. (Previously Presented) The multi-position reclining bed of claim 77 wherein the peripheral frame is capable of elevating the calves section above the thigh and buttocks section.

79. (Previously Presented) The multi-position reclining bed of claim 102, wherein the mattress elements comprise surfaces with differing frictional coefficients.

80. (Previously Presented) The multi-position reclining bed of claim 71, further comprising a releasable mechanical holding device that secures the mattress element to the box spring.

81. (Previously Presented) The multi-position reclining bed of claim 80, wherein the releasable mechanical holding device is located at a sufficient distance from the perimeter of the mattress and box spring to avoid interference with the placement of sheets and/or other bedding materials around the width of the mattress.

82. (Previously Presented) The multi-position reclining bed of claim 80, wherein the releasable mechanical holding device comprises a barb and loop fastening arrangement.

83. (Currently Amended) The multi-position reclining bed of claim 102, further comprising:

[[g]] a. a threaded coupling half;

[[h]] b. a fixed coupling half;

- [[i]] c. a bearing; and
- [[j]] d. a thread spring.

84. (Previously Presented) The multi-position reclining bed of claim 83, wherein the coupling disengages during reclining motion by action of rotating a thread that separates the threaded coupling half from the fixed coupling half.

85. (Previously Presented) The multi-position reclining bed of claim 84, wherein the rotation of the thread is along the axis of the thread against compression force of the thread spring whereby free rotation of the threaded coupling half on the thread prevents further movement along the length of the thread.

86. (Canceled).

87. (Previously Presented) The multi-position reclining bed of claim 53 or 57, further comprising an attached armrest, swing arm, and variable position swivel lock.

88. (Previously Presented) The multi-position reclining bed of claim 103, further comprising a footrest located at the bottom of the calves section.

89. (Previously Presented) The multi-position reclining bed of claim 54 further comprising a buttocks sling secured to the arm rest that allows the occupant's buttocks to be raised, relative to the buttocks section of the bed, by lowering the buttocks section while the sling is supporting the weight of the occupant.

90. (Previously Presented) The multi-position reclining bed of claim 102, further comprising a powered mechanism located behind the back section, that is capable of causing a protrusion of the back section of the mattress.

91. (Previously Presented) The multi-position reclining bed of claim 54, further comprising a desk attached to the bed, the desk capable of supporting written material.

92-101. (Canceled).

102. (Previously Presented) A multi-position reclining bed comprising:

- a. a horizontally situated elongated track,
- b. a plurality of supporting elements positioned above and overlying said track,

and moveably coupled thereto, and comprising:

- i. a back section;
- ii. a buttocks section; and
- iii. a thigh/calve section,

said supporting elements being pivotably connected to each other at abutting edges;
and

- c. a linear actuator coupled to the supporting elements, said back section being coupled to said track section and configured to move an end portion thereof vertically in a vertical plane when said linear actuator is activated, such that when said back section is raised or lowered, said end portion remains substantially the same distance from an adjacent wall, and wherein said thigh/calve section reclines pivotally below a horizontal plane of the buttocks section in a downward direction pivotally about an adjoining edge with the buttocks section.

103. (Previously Presented) The multi-position reclining bed of Claim 102 wherein said thigh/calve section comprises two independent sections, a thigh section and a calve section, connected to each other in a lockable co-planar configuration, and capable of independent movement when unlocked.

104. (Previously Presented) The multi-position reclining bed of Claim 102 wherein said thigh/calve section, when in planar resting position, extends beyond said track, whereby when said back section is elevated, said thigh/calve section is provided clearance to drop below the horizontal plane of said track.

105. (Previously Presented) The multi-position reclining bed of Claim 102 further comprising a cantilever leg wherein said track is supported at a point toward the longitudinal center of the bed significantly inwards from the resting part of said cantilever leg on the floor, whereby when said back section is elevated, said track can be retracted to allow clearance for said thigh/calve section to drop below the horizontal plane of said track.